



PATENT SPECIFICATION

647,301

Date of filing Complete Specification : April 13, 1949.

Application Date : May 14, 1948. No. 13294/48.

Complete Specification Published : Dec. 13, 1950.

Index at Acceptance :—Class 5(i), A1(c : g).

PROVISIONAL SPECIFICATION.

Improved means for Protecting Furniture from Insect Access.

I, JAMES HENDERSON, of 98, High Street, Kirkcaldy, Fife, a British subject, do hereby declare the nature of this invention to be as follows :—

5 This invention relates to furniture, more particularly to articles of furniture, such as tables, beds or wardrobes, that are supported by legs.

10 The principal object of the present invention is to provide a form of leg for use on such articles of furniture that will prevent the passage of insects, such as ants, up the leg and on to the table or other structure supported by the leg or legs. Such a form of leg would be particularly useful in tropical and sub-tropical countries where the ravages of insects are a constant problem.

20 According to the invention, a leg for use on articles of furniture, such as tables, is formed or provided intermediate its length with an annular trough for containing an insect-repelling or destroying substance.

25 According to a further feature of the invention, the annular trough may be surmounted by a dome-shaped cap to act as a further barrier to insects that may succeed in passing through the substance in the annular trough. The rim of said dome-shaped cap advantageously extends for a short distance below the level of the annular trough.

30 In carrying the invention into effect according to one embodiment which is described by way of example only, the leg is formed with a lower portion and a shorter upper portion of substantially reduced thickness, the two portions being coaxial and the upper end of the lower portion being formed with an annular trough surrounding the lower end of the upper portion. The lower portion is of gradually reduced thick-

ness to a waist portion from which it thickens out again towards the base. I have found that particularly effective results are obtained if the distance of the waist portion from the ground is one third of the distance of the trough from the ground, and if the diameter of the leg at the trough is twice the diameter at the waist. The upper portion of the leg is formed with a reduced threaded portion at its upper end forming a seating for a dome-shaped cup having an aperture at its peak, through which the threaded portion is passed. I have found that the rim of the cup should preferably be not less than $\frac{1}{4}$ " below the lip of the trough. The cup is held in position by a plate having a threaded aperture by means of which the plate is applied to the threaded portion of the leg, said plate serving as a means of attaching the leg to the table or other article of furniture.

In use, the trough on the leg is filled with an insect-destroying or repelling substance, such as Diesel oil or paraffin.

The leg is preferably made of highly polished metal so that only the larger insects are able to reach the trough. In addition to acting as a further barrier to any insects that may succeed in passing through the trough, the cup protects the material in the trough from dust or accidental removal.

Dated the 14th day of May, 1948.

KINGS PATENT AGENCY LIMITED,
By

B. T. KING, A.I.MECH.E.,
DIRECTOR.

Registered Patent Agent.
146A, Queen Victoria Street, London, E.C.4.
Agents for the Applicant.

COMPLETE SPECIFICATION.

Improved means for Protecting Furniture from Insect Access.

I, JAMES HENDERSON, of 98, High Street, Kirkcaldy, Fife, a British subject, do hereby declare the nature of this invention and

in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

[Price 2/-]

This invention relates to legs for furniture and to articles of furniture such as beds or wardrobes that are supported by legs and in common with prior proposals provides a form of leg which will prevent the passage of insects, such as ants, up the leg and on to the structure supported by the leg or legs, this being of especial advantage in tropical and sub-tropical countries where the ravages of insects are a constant problem.

In the above connection it has been proposed to provide the leg with an annular trough for containing an insect-repelling or destroying substance and with a cover surmounting the trough to overlie same, for example a plate-like cover of inverted-tray form disposed wholly above the level of the trough and of a size greater than the trough-formed part of the leg so as to overhang same.

According to this invention a leg for, or incorporated with, an article of furniture, has intermediate of its length an annular trough for containing an insect-repelling or destroying substance, and has a dome-shaped cap surmounting the trough to overlie same, said cap having a lower portion depending down below the crest of the outer wall of the trough and spaced from said outer wall. This depending overhang of the cap effectively conceals the trough and diminishes the risk of large insects gaining access to the upper part of the leg.

The trough-formed part of the leg may be detachably engageable with a base member, its detachment therefrom allowing said member to be separated from the cap whereby access can be had for cleaning the trough and replenishing the substance to be contained therein.

A leg constructed according to a convenient embodiment of the invention will now be described and is shown in part-sectional elevation in the accompanying drawing.

The leg is formed with a lower portion 1 and a shorter upper portion 2, the latter being of less thickness than portion 1. The portions 1 and 2 are coaxial, the upper end of the lower portion 1 being formed with an annular trough 3 surrounding the lower end of the upper portion 2. The lower portion 1 gradually decreases in thickness from the top to a waist portion 4 from which it thickens out again towards the base. I have found that particularly effective results are obtained if the height of the waist portion 4 from the ground is approximately one-third of the distance of the trough 3 from the ground, and if the outside diameter of the leg at the trough 3 is approximately twice the diameter at the waist 4.

The upper portion 2 of the leg is formed with a reduced threaded portion 5 at its upper end. At the base of said portion 5 is a seating 6 for a dome-shaped inverted cup 7 having an aperture at its peak, through which aperture the threaded portion 5 is passed. The rim 8 of the cup 7 depends down not less than $\frac{1}{4}$ " below the crest 9 of the outer wall of the trough 3 and is spaced from said wall as shown. The cup 7 is held in position by a plate 10 having a threaded aperture 11 into which screws the leg portion 5, said plate 10 serving as a base member for attaching the leg to the article of furniture.

In use, the trough 3 on the leg is filled with an insect-destroying or repelling substance, such as Diesel oil or paraffin.

The leg is preferably made of highly polished metal so that only certain insects are able to reach the trough. In addition to acting as a further barrier to any insects that may succeed in passing through the trough, the cup 7 protects the material in the trough from dust or accidental removal.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A leg for, or incorporated with, an article of furniture, said leg having intermediate of its length an annular trough for containing an insect-repelling or destroying substance, and having a dome-shaped cap surmounting the trough to overlie same, said cap having a lower portion depending down below the crest of the outer wall of the trough and spaced from said outer wall.

2. A leg according to Claim 1, wherein the trough-formed portion of the leg is detachably engageable with a base member, its detachment therefrom allowing said member to be separated from the cap whereby access can be had for cleaning the trough and replenishing the substance to be contained therein.

3. A leg according to Claim 2, wherein the dome-shaped cap is an element separate from the trough-formed portion of the leg and has an aperture through which passes a screw threaded upper extremity of said trough-formed portion, said cap being clamped in place between a shoulder at the base of said threaded extremity and a plate into which said extremity is screwed.

4. A leg according to any of the preceding Claims, wherein a portion of the leg below the trough is of waisted form.

5. A leg for, or incorporated with, an article of furniture, said leg being constructed substantially as herein described with reference to the accompanying drawings.

Dated the 13th day of April, 1948.

KINGS PATENT AGENCY LIMITED,

By

B. T. KING, A.I.MECH.E.
DIRECTOR.

Registered Patent Agent,

146A, Queen Victoria Street,

London, E.C.4.

Agents for the Applicants.

Abingdon : Printed for His Majesty's Stationery Office, by Burgess & Son (Abingdon), Ltd.—1950.
Published at The Patent Office, 25, Southampton Buildings, London, W.C.2, from which
copies, price 2s. 0d. each (inland) 2s. 1s. (abroad) may be obtained.

[This Drawing is a reproduction of the Original on a reduced scale.]

